

CLAIM SUMMARY DOCUMENT

WO 2004/065154 ————— PCT/EP2003/014724

———— CLAIMS CLAIM:

1. (Currently Amended) ~~Pivoting sliding door for vehicles, particularly rail vehicles or lift cabins, having at least one door wing (3) which, in the closed position, is arranged in the vehicle wall and which, in the open position, is arranged on the exterior side (A) in front of the vehicle wall and in the process leaves a door opening free, driving devices (2) as well as transversal guiding devices (4, 5) and longitudinal guiding devices (7) being provided which permit a movement of the at least one door wing (3) transversely to the vehicle wall and along the vehicle wall, the longitudinal guiding devices moving by means of the transversal guiding devices in the transverse direction, the door, in the closed position, being locked by a pivoting part which engages in a guide, characterized in that the pivoting part (10) has a guiding part (11) which interacts with a guide (12), and in that the guide (12), in the area in which the pivoting part (10) in the closed position of the door interacts with it, has a circular arc section (12c) around the momentary position of the axis of rotation (9) of the pivoting part (10).~~ A pivoting sliding door for vehicles, particularly rail vehicles or lift cabins, comprising:

a vehicle body;

at least one door wing which, in a closed position is arranged within the vehicle body and which, in an opened position is arranged in front of and on an exterior side of the vehicle body;

at least one driving device;

at least two transverse guiding devices;

at least one longitudinal guiding device to permit a transverse movement of

the at least one door wing to and along the vehicle body, the at least one longitudinal guiding device being moved by the at least two transverse guiding devices, and the at least one door wing being locked by a pivoting part that engages in one of the at least two transverse guiding devices; and

wherein the pivoting part has an axis of rotation and includes a guiding part that interacts with a guiding element and when the door is in the closed position the pivoting part interacts with the guiding element in area of the guiding element having a curved section, the curved section being at least partially defined around a momentary position of the axis of rotation of the pivoting part.

2. (Currently Amended) ~~Pivoting~~ The pivoting sliding door according to Claim 1,
~~characterized in that~~wherein the guide, in the section (12a) in which~~guiding element includes~~
a section extending in a straight line and in which section the pivoting part (10) interacts with
~~it~~when the pivoting part is positioned outside its position associated with the closed position
of the at least one door wing, extends in a straight line.

3. (Currently Amended) ~~Pivoting~~ The pivoting sliding door according to Claim 1 or
2,
~~characterized in that~~wherein, in the closed position of the at least one door wing, the guiding
part (11) of the pivoting part (10) is positioned at a distance from the~~a~~transition point (18)
connecting the two guiding sections (12a, 12b)~~curved section and the section extending in a~~
straight line.

4. (Currently Amended) ~~Pivoting~~ The pivoting sliding part door according to one of
the preceding claims,

~~characterized in that~~ Claim 1, wherein the pivoting part (10) is rotatably ~~rotatable~~ about the axis of rotation (9) arranged on a carriage (4) carrying out the ~~transversal~~ traverse movement.

5. (Currently Amended) ~~Pivoting~~ The pivoting sliding part ~~door~~ according to Claim 4,
~~characterized in that~~ wherein the pivoting part (10) is pivoted about ~~its~~ the axis of rotation (9) by ~~the~~ a moment of reaction of ~~the~~ a driving motor acting upon the at least one longitudinal guiding device and is arranged on the carriage.